

What is claimed is:

1           1.       A filter assembly for filtering waste particles in a dishwasher, the filter  
2 assembly comprising:

3               water circulating means for supplying washing and rinsing water under pressure to  
4 the filter assembly; and

5               at least one cleaning nozzle, provided at a predetermined position along an outer  
6 circumference of the filter assembly, to communicate with said water circulating means,

7               wherein the pressurized water of said water circulating means is sprayed into the  
8 filter assembly.

1           2.       The filter assembly as claimed in claim 1, wherein said water circulating  
2 means comprises a wash pump assembly for circulating water and a sump for collecting  
3 runoff water.

1           3.       The filter assembly as claimed in claim 1, wherein the filter assembly is  
2 comprised of a plurality of concentrically arranged filters and wherein said at least one  
3 cleaning nozzle is juxtaposed to an outer filter of the filter assembly.

1           4.       The filter assembly as claimed in claim 3, wherein the filters of the filter  
2 assembly have varyingly sized filter holes, respectively, and wherein the outer filter of the  
3 filter assembly has the smallest holes among the varyingly sized holes.

1           5.       The filter assembly as claimed in claim 1, wherein said at least one cleaning

2 nozzle comprises a nozzle body and a multitude of injection holes perforating the nozzle body.

1 6. The filter assembly as claimed in claim 5, wherein the injection holes  
2 perforating the nozzle body each have a size determined by the water pressure of said water  
3 circulating means, wherein the water pressure of said water circulating means is derived from  
4 a service pipe.